

## **Abstract**

**Author:** Andrea Kohútová

**Title:** A case Study of Physiotherapy Treatment Concerning a Patient with Transfemoral Amputation

**Objectives:** The main goal of this bachelor thesis is to create a case study of physiotherapy treatment concerning a patient with transfemoral amputation and to summarize the theoretical knowledge base corresponding with this diagnosis, its causes and possibilities of rehabilitation treatment.

**Methods:** This bachelor thesis is split into two parts, a theoretical one and a practical one. The main focus of the theoretical part is to establish a brief summary of the anatomy and kinesiology of the lower limb, the theoretical information about amputation and their etiology, the operation techniques and after-surgery complications. It also contains some general findings about lower limb ischemic disease. The first part focuses on the problematics concerning orthopedic prosthetics, subsequent rehabilitation care and physiotherapeutic methods. The second part contains a detailed case study of physiotherapy treatment concerning a patient with transfemoral amputation. This case study includes the anamnesis of the patient, a detailed initial and final complex kinesiology examination, the proposal and aims of the therapy, records of performed individual therapeutic units and an afterwards final evaluation.

**Results:** During this two-week long therapy, we've managed to positively affect the patient's health condition. It resulted in the improvement of his overall condition and muscle strength. Thanks to the restoration of joint range, we've managed to improve his overall standing and walking stability. We've also partially managed to improve the stereotype of some movement patterns. The main benefit of this therapy was pain relief in the lower back and lower limb areas.

**Keywords:** amputation, lower limbs, phantom pain, prosthetics, physiotherapy, lower limb ischemic disease